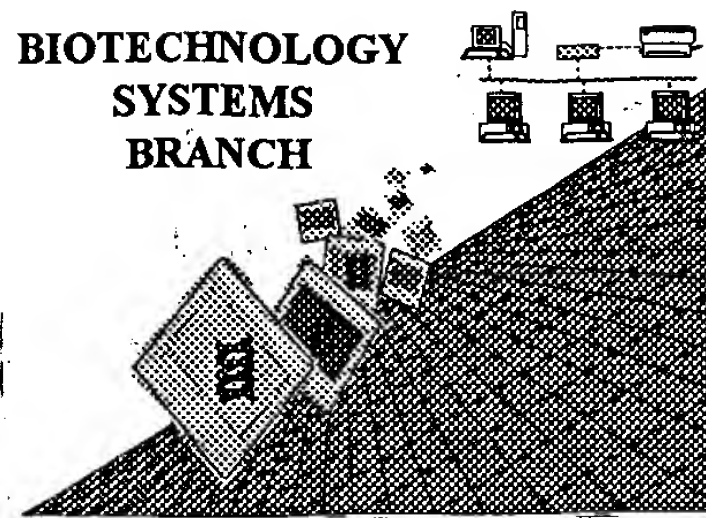


165-5  
#7  
12P

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/663,516  
Source: 609  
Date Processed by STIC: 1/18/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,  
2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,  
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/663,576

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1        Wrapped Nucleics  
    Wrapped Aminos  
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2        Invalid Line Length  
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3        Misaligned Amino  
    Numbering  
The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4        Non-ASCII  
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5        Variable Length  
Sequence(s)        contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6        PatentIn 2.0  
    "bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)       . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7        Skipped Sequences  
    (OLD RULES)  
Sequence(s)        missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8        Skipped Sequences  
    (NEW RULES)  
Sequence(s)        missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9        Use of n's or Xaa's  
    (NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10        Invalid <213>  
    Response  
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11        Use of <220>  
Sequence(s) 1-28 (and more) missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12        PatentIn 2.0  
    "bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13        Misuse of n  
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



1600

TECH CENTER 1600/2300

JAN 28 2002

RECEIVED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/663,516

DATE: 01/18/2002

TIME: 07:56:03

Input Set : A:\GA0129.ST25.txt

Output Set: N:\CRF3\01182002\I663516.raw

*pp 1-5*  
**Does Not Comply**  
**Corrected Diskette Needed**

3 <110> APPLICANT: GENZYME CORPORATION  
 4 Beaudry, Gary  
 5 Madden, Stephen  
 6 Bertelsen, Arthur  
 8 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE IDENTIFICATION OF LUNG  
 TUMOR CELLS

10 <130> FILE REFERENCE: GA0129C  
 12 <140> CURRENT APPLICATION NUMBER: US 09/663,516  
 13 <141> CURRENT FILING DATE: 2000-09-15  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US99/06938  
 16 <151> PRIOR FILING DATE: 1999-03-30  
 18 <150> PRIOR APPLICATION NUMBER: 60/080,037  
 19 <151> PRIOR FILING DATE: 1998-03-31  
 21 <160> NUMBER OF SEQ ID NOS: 40  
 23 <170> SOFTWARE: PatentIn version 3.0

25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 10  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Artificial Sequence  
 W--> 30 <220> FEATURE:  
 W--> 30 <223> OTHER INFORMATION:

*global error*

*see item 11 on Error  
 Summary Sheet*

10

30 <400> SEQUENCE: 1  
 31 aaggagcaag  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 10  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Artificial Sequence  
 W--> 39 <220> FEATURE:  
 W--> 39 <223> OTHER INFORMATION:

*same*

10

39 <400> SEQUENCE: 2  
 40 ctctctgggcg  
 43 <210> SEQ ID NO: 3  
 44 <211> LENGTH: 10  
 45 <212> TYPE: DNA  
 46 <213> ORGANISM: Artificial Sequence  
 W--> 48 <220> FEATURE:  
 W--> 48 <223> OTHER INFORMATION:

10

48 <400> SEQUENCE: 3  
 49 gatagcacag  
 52 <210> SEQ ID NO: 4  
 53 <211> LENGTH: 10  
 54 <212> TYPE: DNA  
 55 <213> ORGANISM: Artificial Sequence  
 W--> 57 <220> FEATURE:

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/663,516

DATE: 01/18/2002

TIME: 07:56:03

Input Set : A:\GA0129.ST25.txt

Output Set: N:\CRF3\01182002\I663516.raw

W--&gt; 57 &lt;223&gt; OTHER INFORMATION:

57 &lt;400&gt; SEQUENCE: 4

58 tgctgcctgt

10

61 &lt;210&gt; SEQ ID NO: 5

62 &lt;211&gt; LENGTH: 10

63 &lt;212&gt; TYPE: DNA

64 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 66 &lt;220&gt; FEATURE:

W--&gt; 66 &lt;223&gt; OTHER INFORMATION:

66 &lt;400&gt; SEQUENCE: 5

67 ccatttttac

10

70 &lt;210&gt; SEQ ID NO: 6

71 &lt;211&gt; LENGTH: 10

72 &lt;212&gt; TYPE: DNA

73 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 75 &lt;220&gt; FEATURE:

W--&gt; 75 &lt;223&gt; OTHER INFORMATION:

75 &lt;400&gt; SEQUENCE: 6

76 gtccctgcct

10

79 &lt;210&gt; SEQ ID NO: 7

80 &lt;211&gt; LENGTH: 10

81 &lt;212&gt; TYPE: DNA

82 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 84 &lt;220&gt; FEATURE:

W--&gt; 84 &lt;223&gt; OTHER INFORMATION:

84 &lt;400&gt; SEQUENCE: 7

85 caactaattc

10

88 &lt;210&gt; SEQ ID NO: 8

89 &lt;211&gt; LENGTH: 10

90 &lt;212&gt; TYPE: DNA

91 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 93 &lt;220&gt; FEATURE:

W--&gt; 93 &lt;223&gt; OTHER INFORMATION:

93 &lt;400&gt; SEQUENCE: 8

94 gttataagat

10

97 &lt;210&gt; SEQ ID NO: 9

98 &lt;211&gt; LENGTH: 10

99 &lt;212&gt; TYPE: DNA

100 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 102 &lt;220&gt; FEATURE:

W--&gt; 102 &lt;223&gt; OTHER INFORMATION:

102 &lt;400&gt; SEQUENCE: 9

103 tatttttggt

10

106 &lt;210&gt; SEQ ID NO: 10

107 &lt;211&gt; LENGTH: 10

108 &lt;212&gt; TYPE: DNA

109 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 111 &lt;220&gt; FEATURE:

W--&gt; 111 &lt;223&gt; OTHER INFORMATION:

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/663,516

DATE: 01/18/2002  
 TIME: 07:56:03

Input Set : A:\GA0129.ST25.txt  
 Output Set: N:\CRF3\01182002\I663516.raw

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111 <400> SEQUENCE: 10
112 cagataacat 10
115 <210> SEQ ID NO: 11
116 <211> LENGTH: 10
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
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W--> 120 <223> OTHER INFORMATION:
120 <400> SEQUENCE: 11
121 tgtacctgta 10
124 <210> SEQ ID NO: 12
125 <211> LENGTH: 10
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
W--> 129 <220> FEATURE:
W--> 129 <223> OTHER INFORMATION:
129 <400> SEQUENCE: 12
130 ccaggggaga 10
133 <210> SEQ ID NO: 13
134 <211> LENGTH: 10
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
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W--> 138 <223> OTHER INFORMATION:
138 <400> SEQUENCE: 13
139 gagaaaaccc 10
142 <210> SEQ ID NO: 14
143 <211> LENGTH: 10
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
W--> 147 <220> FEATURE:
W--> 147 <223> OTHER INFORMATION:
147 <400> SEQUENCE: 14
148 atgtacctga 10
151 <210> SEQ ID NO: 15
152 <211> LENGTH: 10
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
W--> 156 <220> FEATURE:
W--> 156 <223> OTHER INFORMATION:
156 <400> SEQUENCE: 15
157 ttctaacata 10
160 <210> SEQ ID NO: 16
161 <211> LENGTH: 10
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
W--> 165 <220> FEATURE:
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165 <400> SEQUENCE: 16

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/663,516

DATE: 01/18/2002  
 TIME: 07:56:03

Input Set : A:\GA0129.ST25.txt  
 Output Set: N:\CRF3\01182002\I663516.raw

```

166 ggtggtgtct 10
169 <210> SEQ ID NO: 17
170 <211> LENGTH: 10
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
W--> 174 <220> FEATURE:
W--> 174 <223> OTHER INFORMATION:
174 <400> SEQUENCE: 17
175 tactagtcct 10
178 <210> SEQ ID NO: 18
179 <211> LENGTH: 10
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
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183 <400> SEQUENCE: 18
184 atgcagccat 10
187 <210> SEQ ID NO: 19
188 <211> LENGTH: 10
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
W--> 192 <220> FEATURE:
W--> 192 <223> OTHER INFORMATION:
192 <400> SEQUENCE: 19
193 tgctgccctg 10
196 <210> SEQ ID NO: 20
197 <211> LENGTH: 10
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
W--> 201 <220> FEATURE:
W--> 201 <223> OTHER INFORMATION:
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202 tggccccgacg 10
205 <210> SEQ ID NO: 21
206 <211> LENGTH: 10
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
W--> 210 <220> FEATURE:
W--> 210 <223> OTHER INFORMATION:
210 <400> SEQUENCE: 21
211 tgccgttttg 10
214 <210> SEQ ID NO: 22
215 <211> LENGTH: 10
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
W--> 219 <220> FEATURE:
W--> 219 <223> OTHER INFORMATION:
219 <400> SEQUENCE: 22
220 gatgaggaga 10

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/663,516

DATE: 01/18/2002  
TIME: 07:56:03

Input Set : A:\GA0129.ST25.txt  
Output Set: N:\CRF3\01182002\I663516.raw

```

223 <210> SEQ ID NO: 23
224 <211> LENGTH: 10
225 <212> TYPE: DNA
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229 tggaaatgac 10
232 <210> SEQ ID NO: 24
233 <211> LENGTH: 10
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
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238 taataactttt 10
241 <210> SEQ ID NO: 25
242 <211> LENGTH: 10
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
W--> 246 <220> FEATURE:
W--> 246 <223> OTHER INFORMATION:
246 <400> SEQUENCE: 25
247 caataaaatt 10
250 <210> SEQ ID NO: 26
251 <211> LENGTH: 10
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
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255 <400> SEQUENCE: 26
256 aaggctggaa 10
259 <210> SEQ ID NO: 27
260 <211> LENGTH: 10
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
W--> 264 <220> FEATURE:
W--> 264 <223> OTHER INFORMATION:
264 <400> SEQUENCE: 27
265 cggccacaga 10
268 <210> SEQ ID NO: 28
269 <211> LENGTH: 10
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
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W--> 273 <223> OTHER INFORMATION:
273 <400> SEQUENCE: 28
274 gcgcagactt 10
277 <210> SEQ ID NO: 29

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The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.



## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/663,516

DATE: 01/18/2002

TIME: 07:56:04

Input Set : A:\GA0129.ST25.txt

Output Set: N:\CRF3\01182002\I663516.raw

L:30 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:30 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
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L:39 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
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L:57 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:66 M:258 W: Mandatory Feature missing, <220> FEATURE:  
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L:201 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
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L:210 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
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L:237 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/663,516

DATE: 01/18/2002

TIME: 07:56:04

Input Set : A:\GA0129.ST25.txt

Output Set: N:\CRF3\01182002\I663516.raw

L:246 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:246 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: